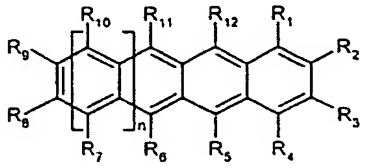
This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Original) An organic semiconducting layer formulation, which comprises: an organic binder which has a permittivity, $\epsilon$, at 1,000 Hz of 3.3 or less; and a polyacene compound of Formula A:




Formula A

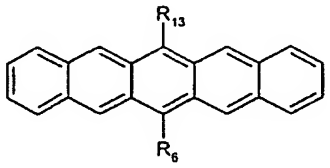
wherein:

each of $R_1$, $R_2$, $R_3$, $R_4$, $R_5$, $R_6$, $R_7$, $R_8$, $R_9$, $R_{10}$, $R_{11}$ and $R_{12}$, which may be the same or different, independently represents hydrogen; an optionally substituted $C_1$-$C_{40}$ carbyl or hydrocarbyl group; an optionally substituted $C_1$-$C_{40}$ alkoxy group; an optionally substituted $C_6$-$C_{40}$ aryloxy group; an optionally substituted $C_7$-$0_{40}$ alkylaryloxy group; an optionally substituted $C_2$-$C_{40}$ alkoxycarbonyl group; an optionally substituted $C_7$-$C_{40}$ aryloxycarbonyl group; a cyano group (-CN); a carbamoyl group (-C(=O)$NH_2$); a haloformyl group (-C(=O)-X, wherein X represents a halogen atom); a formyl group (-C(=O)-H); an isocyano group; an isocyanate group; a thiocyanate group or a thioisocyanate group; an optionally substituted amino group; a hydroxy group; a nitro group; a $CF_3$ group; a halo group (Cl, Br, F); or an optionally substituted silyl group; and wherein independently each pair of $R_2$ and $R_3$ and/or $R_8$ and $R_9$, may be cross-bridged to form a $C_4$-$C_{40}$ saturated or unsaturated ring, which saturated or unsaturated ring may be intervened by an oxygen atom, a sulphur atom or a group shown by formula -N($R_a$)- (wherein $R_a$ is a hydrogen atom or an optionally substituted hydrocarbon group), or may optionally be substituted; and

wherein one or more of the carbon atoms of the polyacene skeleton may optionally be substituted by a heteroatom selected from N, P, As, 0, S, Se and Te; and wherein independently any two or more of the substituents $R_1$-$R_{12}$ which are located on adjacent ring positions of the polyacene may, together, optionally constitute a further $C_4$-$C_{40}$ saturated or unsaturated ring optionally interrupted by 0, S or -N($R_a$) where $R_a$ is as defined above) or an aromatic ring system, fused to the polyacene; and wherein

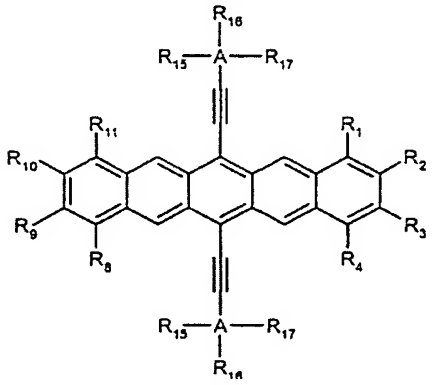
n is 0, 1, 2, 3 or 4.

2. (Original) An organic semiconducting layer formulation as claimed in claim 1 wherein the polyacene compound is selected from Compound Groups 1 or 8 or isomers thereof wherein:
compound Group 1 is represented by Formula 1:



Formula 1

and
compound Group 8 is represented by Formula 8:



Formula 8

wherein, $R_6$ and $R_{13}$ in Group 1 and $R_1$, $R_2$, $R_3$, $R_4$, $R_8$, $R_9$, $R_{10}$, $R_{11}$, $R_{15}$, $R_{16}$, $R_{17}$ and $R_{18}$, in Group 8 are each independently the same or different and each independently represents: H; an optionally substituted $C_1$-$C_{40}$ carbyl or hydrocarbyl group; an optionally substituted $C_1$-$C_{40}$ alkoxy group; an optionally substituted $C_6$-$C_{40}$ aryloxy group; an optionally substituted $C_7$-$C_{40}$ alkylaryloxy group; an optionally substituted $C_2$-$C_{40}$ alkoxycarbonyl group; an optionally substituted $C_7$-$C_{40}$ aryloxycarbonyl group; a cyano group (-CN); a carbamoyl group (-C(=O)NH2); a haloformyl group (-C(=O)-X, wherein X represents a halogen atom); a formyl group (-C(=O)-H); an isocyano group; an isocyanate group; a thiocyanate group or a thioisocyanate group; an optionally substituted amino group; a hydroxy group; a nitro group; a $CF_3$ group; a halo group (Cl, Br, F); or an optionally substituted silyl group; and wherein independently each pair of $R_1$ and $R_2$, $R_2$ and $R_3$, $R_3$ and $R_4$, $R_8$ and $R_9$, $R_9$ and $R_{10}$, $R_{10}$ and $R_{11}$, $R_{15}$ and $R_{16}$ and $R_{16}$ and $R_{17}$ may be cross-bridged with each other to form a $C_4$-$C_{40}$

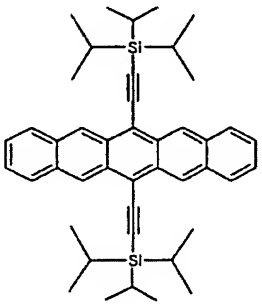
saturated or unsaturated ring, which saturated or unsaturated ring may be intervened by an oxygen atom, a sulphur atom or a group shown by formula: -N($R_a$)- (wherein $R_a$ is a hydrogen atom or a hydrocarbon group), or may optionally be substituted; and wherein A represents Silicon or Germanium.

3. 3. (Currently Amended) An organic semiconducting layer formulation as claimed in claim 1 ~~or 2~~ wherein n is 0 or 2.

4. (Original) An organic semiconducting layer formulation as claimed in claim 3 wherein n is 2.

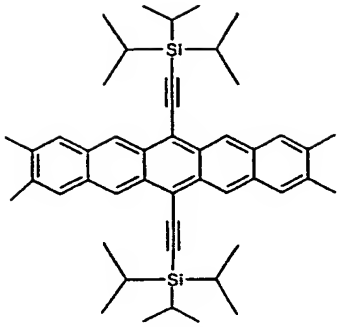
5. (Currently Amended) An organic semiconducting layer formulation as claimed in claim 1 ~~any of the preceding claims~~ wherein the optionally substituted $C_1$-$C_{40}$ hydrocarbyl group is a saturated or unsaturated acyclic group, or a saturated or unsaturated cyclic group.

6. (Currently Amended) An organic semiconducting layer formulation as claimed in claim 1 ~~any of preceding claims 1 to 5~~ wherein the polyacene compound is 6, 13-bis(triisopropylsilylethynyl)pentacene of Formula 1,



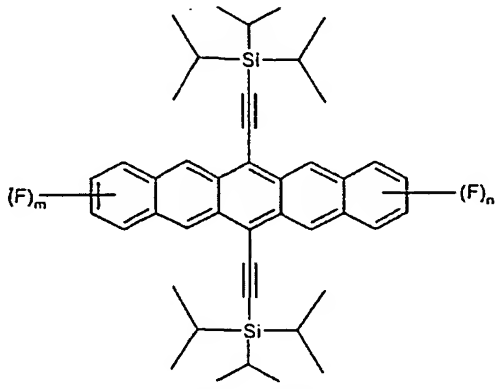

Formula 1

7. (Currently Amended) An organic semiconducting layer formulation as claimed in claim 1 ~~any of preceding claims 1 to 5~~ wherein the polyacene compound is 2,3,9,10-tetramethyl,6,13-bis (triisopropylsilylethynyl)pentacene of Formula 2:



Formula 2

8. (Currently Amended) An organic semiconducting layer formulation as claimed in claim 1 ~~any of preceding 1 to 5~~ wherein the polyacene compound of Formula 3:



Formula 3

wherein n and m is each independently 0,1, 2, 3 or 4, more preferably 0,1 or 2;

9. (Currently Amended) An organic semiconducting layer formulation as claimed in claim 1 ~~any of the preceding claims~~ wherein the organic binder resin has a permittivity at 1,000 Hz of less than 3.0, preferably 2.9 or less.

10. (Original) An organic semiconducting layer formulation as claimed in claim 10 wherein the organic binder resin has a permittivity at 1,000 Hz greater than 1.7, especially a permittivity from 2.0 to 2.9.

11. (Currently Amended) An organic semiconducting layer formulation as claimed in claim 1 ~~any one preceding claim~~ wherein the organic binder resin is an insulating binder.

12. (Original) An organic semiconducting layer formulation as claimed in claim 11 wherein the insulating binder is selected from poly(α-methylstyrene), polyvinylcinnamate, poly(4-vinylbiphenyl), poly(4-methylstyrene) and Topas™ 8007, more preferably poly(a-

methylstyrene), polyvinylcinnamate and poly(4-vinylbiphenyl).

13. (Currently Amended) An organic semiconducting layer formulation as claimed in claim 1 ~~any of claims 1 to 10~~ wherein the organic binder resin is a semiconductor binder.

14. (Original) An organic semiconducting layer formulation as claimed in claim 13 wherein the semiconductor binder comprises a number average molecular weight ($M_n$) of at least 1500-2000, more preferably at least 3000, even more preferably at least 4000 and most preferably at least 5000.

15. (Currently Amended) An organic semiconducting layer formulation as claimed in claim 13 ~~claims 13 or 14~~ wherein the semiconductor binder is selected from poly(9-vinylcarbazole) or PTAA1.

16. (Currently Amended) An organic semiconducting layer formulation as claimed in claim 1 ~~any of the preceding claims~~ wherein the formulation further comprises a solvent.

17. (Currently Amended) An organic semiconducting layer formulation as claimed in claim 1 ~~any of the preceding claims~~ wherein the solvent is selected from xylene(s), toluene, tetralin and odichlorobenzene.

18. (Currently Amended) An organic semiconducting layer formulation as claimed in claim 1 ~~any of the preceding claims~~ wherein the ratio of polyacence compound to binder is 20:1 to 1:20 by weight, preferably 10:1 to 1:10 more preferably 5:1 to 1:5, still more preferably 3:1 to 1:3 further preferably 2:1 to 1:2 and especially 1:1.

19. (Currently Amended) An organic semiconducting layer formulation as claimed in claim 1 ~~any of the preceding claims~~ which comprises a solids content of 0.1 to 10% more preferably 0.5 to 5% by weight.

20. (Currently Amended) A process for preparing an organic semiconducting layer formulation as claimed in claim 1 ~~any of the preceding claims~~ which comprises: (i) depositing on a substrate a liquid layer of a mixture which comprises the polyacene compound, the organic binder resin or precursor thereof and optionally a solvent, and (ii) forming from the liquid layer a solid layer which is the organic semiconducting layer.

21. (Currently Amended) An electronic device comprising an organic semiconducting layer formulation as claimed in claim 1 ~~any of preceding claims 1 to 19~~.

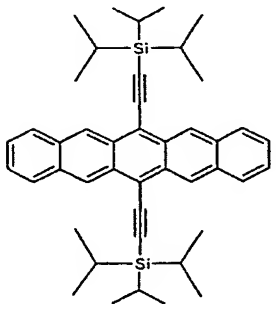
22. (Original) An electronic device according to claim 21 which comprises a field effect transistor (FET), organic light emitting diode (OLED), photodetector, chemical detector, photovoltaic cell (PVs), capacitor sensor, logic circuit, display or memory device.

23. (Original) An OFET device comprising an organic semiconducting layer formulation wherein the organic semiconducting layer formulation comprises:

a compound of Formula 1;

a binder; and

solvent,



Formula 1

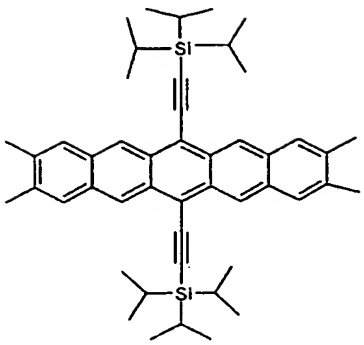
wherein the binder is selected from poly(*α*-methylstyrene), Topas™ 8007, poly(4-methylstyrene), polystyrene and polystyrene-co-*α*-methylstyrene, most preferably poly(*α*-methylstyrene); and the solvent is selected from toluene, ethylcyclohexane, anisole and p-xylene; most preferably toluene.

24. (Original) An OFET device comprising an organic semiconducting layer formulation wherein the organic semiconducting layer formulation comprises:

a compound of Formula 2;

a binder; and

solvent,



Formula 2

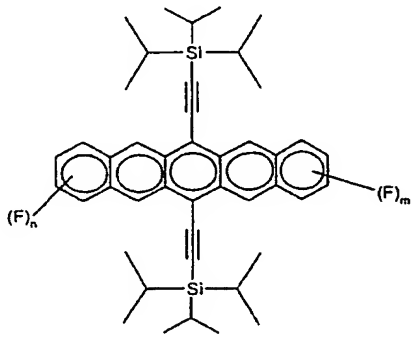
wherein the binder is selected from poly(*α*-methylstyrene), polyvinylcinnamate, and poly(4-vinylbiphenyl), most preferably poly(*α*-methylstyrene); and the solvent is 1,2-dichlorobenzene.

25. (Original) An OFET device comprising an organic semiconducting layer formulation wherein the organic semiconducting layer comprises:

a compound of Formula 3;

a binder; and

a solvent,



Formula (3)

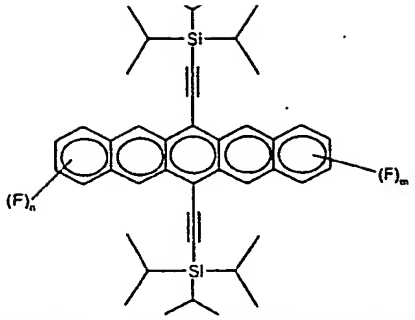
wherein :

n and m are each independently 0,1, 2, 3 or 4, more preferably 0,1 or 2; and

the binder is poly(*α*-methylstyrene); and

the solvent is toluene.

26. (Original) A compound of Formula 3




wherein n and m are each independently 1 or 3, more preferably 1.